INDEX.

Notes upon Passing Events.

Admiralty, Mr. Baxter at the, 439
Admiralty, Mr. Reed and the, 609
Agriculture in Belgium, 438
Agricultural Hall, The Christmas Cattle Show at the, 899
Agricultural Society at Oxford, The Royal, 575
Aldgate and Mansion House Stations, The, 335
Amateur Discourses on Engineering, 117
American System of Constructing Cheap Railways, The, 9
Approaches to the Holborn Valley Viaduct, Completion of the, 542
Appropriation of the Land Reclaimed from the Thames by the Embankment, The, 542
Arbitration for Compensation in Railway Accident Cases, 510
Architects, Mr. Ayrton and the, 401
Asphalte Pavements in the City, 574, 710, 774
Australia, Chinese Fishermen in, 711
Ayrton Intrigue, The, 739
Ayrton, Mr., and his Difficulties, 541
Ayrton, Mr., and the Architects, 401
Ayrton, Mr., and the Kensington Road Bill, 439, 473
Bankrupt Peers, 774
Barking Sewer Outfall, The, 43
Battersea Bridge, 156
Baxter, Mr., at the Admiralty, 439
Belgium, Agriculture in, 438
Board of Trade Tramway Bill, The, 194
Boxer Controversy, The, 402
Boxer from the Manufacturing Department of Woolwich Arsenal, Retirement of Colonel, 7
Bridges from Tolls, Movement for Freeing the Metropolitan, 774
Bridging Over or Tunnelling Under the Straits of Dover, The Schemes for, 156
British Association Sewage Committee, 510
Bulwer's, Sir Henry, Life of Lord Palmerston, 842
Buxton's, Mr., Corporation Reform Bill, 294
Buxton's, Mr., Metropolis Bill, 403
Cavalry Barracks at Knightsbridge, The, 511
Chairmanship of the Metropolitan Board of Works, The, 642, 739, 809
Chemical Evidence given before the Commission on Water Supply, 293
Chinese Fishermen in Australia, 711
Christmas Cattle Show at the Agricultural Hall, The, 899
Christ's Hospital, 293
Christ's Hospital and the Corporation of London, 369
City of London, Scavenging in the, 542
Civil Engineers, Mr. Vignoles's Inaugural Address as President of the Institution of, 79
Civil Engineers, Subjects for Premiums Proposed by the, 773
Civil Engineers, The Annual Dinner of the Institution of, 402
Civil Engineers, The Training and Status of, 842
Compensation in Railway Accident Cases, Arbitration for, 510
Competition, The Rage for, 810
Condition of our English Defences, 573, 809
Contagious Diseases Act, The, 370, 439
Continuation of the Thames Embankment to Chelsea, Proposed, 542
Controversy, The Boxer, 402
Corporation of London and Christ's Hospital, The, 369
Corporation of London and the Thames Conservancy Bill, The, 229
Corporation of London, The Market Difficulties of the, 841
Corporation of London to the Proposed New Terminal Station at the Mansion House, Resistance of the, 9, 230, 294, 369, 439
Corporation of the City of London, Financial Mismanagement of the, 867
Corporation Reform, 369
Corporation Reform Bill, Mr. Buxton's, 294
Crystal Palace, Mr. F. Fuller and the, 739
Cultivation of Waste Lands, Mr. Morley, M.P., on the, 117
Cutting Off the Water Supply from Paris, 740
Dead-Lock at Gloucester House, The, 229
Death of Sir John Thwaites, 609
Defects in the Transit between England and France, The, 403
Defences, Condition of our English, 573, 809
Denton, Mr. Bailey, on Labourers Cottages, 740
Denton, Mr. Bailey, on Sewage and Sewage Farms, 230
Denton, Mr. Bailey, on "Village Sanitary Economy," 474
Descent of Royalty into the Ranks, 774
Despotism in the Scilly Islands, Paternal, 155
Dinner of the Institution of Civil Engineers, The Annual, 402
Diplomatic Life at the German Courts, 810
Drill the Boys in Public Schools, Proposal to, 775
Drunkenness in Scotland, Increase of, 775
Economical Fever, The, 809
Educational Boards, The, 809
Educational Question of the Approaching Session, 9
Education Bill, The, 474
Education Board Elections, The, 868
Education, Military, 333
Embankment, The Appropriation of the Land Reclaimed from the Thames by the, 542
Embankment to Chelsea, Proposed Continuation of the Thames, 542
Engineering, Amateur Discourses on, 117
English Defences, Condition of our, 573
English Pauperism, 510
Evidence before the Select Committee on Pawnbroking, 710
Evidence taken before the Royal Sanitary Commission, 334
Extension of Tramways, 9
Farmers Central Club, Discussion on Small Farms at the, 900
Financial Mismanagement of the Corporation of the City of London, 867
Firearm Question, The, 710
France, Protection in, 79
France, The *Ponts et Chaussées* in, 79
Freeing the Metropolitan Bridges from Tolls, Movement for, 774
Fuller, Mr. F., and the Crystal Palace, 739
Game Preserving, 438
Gas Projects, New, 117
German Courts, Diplomatic Life at the, 810
Gloucester House, The Dead-Lock at, 229
Gordon, The late Major-General Sir William, 156
Government and the Telegraphs, The, 194, 510
Government Rewards to Inventors, 609
Government Telegraphs, The, 901
Grievances of the Pawnbrokers, The, 775
Gymnastics, Military, 573
Harrison's, Mr. J., Paper on Railways at the Institution of Civil Engineers, 117
Harrow Road Improvement, The Proposed, 841
Heywood's, Mr., Report on the Railway, and other Projects affecting the City of London, 116
History of Taxation since 1815, 510
Holborn Valley Viaduct, Completion of the Approaches to the, 542
Hope, Mr., on the Use and Abuse of Sewage, 194
Improvements in St. Paul's Churchyard, Proposed, 194
Improvements in the Police Force, Proposed, 511
Indian Government for its Libels on the Civil Engineers, *Amende* of the, 80
India, Public Works in, 80
India, The Metric System in British, 609
Industrial and Technical Teaching, The Lord Mayor and the National University for, 741
Inland Revenue, Report of the Commissioners of, 574
Intrigue, The Ayrton, 739
Inventors, Government Rewards to, 609
Irish Land Bill, The, 437
Islington, Macadamizing in, 117
Islington, The Steam-Roller in, 229, 511
Japanese Blue-Book, The, 711
Japanese on Railways, A, 811
Kensington Road Bill, Mr. Ayrton and the, 439, 473
Knightsbridge, The Cavalry Barracks at, 511
Labourers Cottages, Mr. Bailey Denton on, 740
Leicester, The Sewage Question at, 9
Letheby, Dr., The Registrar-General and, 193
Letheby's, Dr., Report on the Sanitary Condition of the City of London, 115
Libels on the Civil Engineers, *Amende* of the Indian Government for its, 80
Licensing System, The, 773
London, Chatham, and Dover Railway, The, 642
Lord Mayor, The, and the National University for Industrial and Technical Teaching, 741
Macadamizing in Islington, 117
Market Difficulties of the Corporation of London, The, 841
Marylebone, The Steam-Roller in, 774
Metropolis Bill, Mr. Buxton's, 403
Metropolis, Constant Water Supply for the, 899
Metropolitan Board, Debate on the Water Supply, 44, 117, 155
Metropolitan Board of Works, The Chairmanship of the, 642, 739, 809
Metropolitan Markets, The, 294
Metropolitan School Board, The, 901
Metropolitan Tramways, 155
Military Education, 333
Military Gymnastics, 573
Mont Cenis Railway, The, 642
Morley, M.P., Mr., On the Cultivation of Waste Lands, 117
New Gas Projects, 117
New Forest, The, 194
Newspaper Press in England and her Colonies, and in Europe, The, 710
New Street from Oxford Street to Coventry Street, Proposed, 809
Overend and Gurney Trial, The, 8
Oxford, The Royal Agricultural Society at, 575
Palmerston, Lord, Sir Henry Bulwer's Life of, 842
Paris, Cutting Off the Water Supply from, 740
Pauperism in England, 510
Pavements in the City, Asphalte, 574, 710, 774
Pawnbrokers, The Grievances of the, 775
Pawnbroking, Evidence before the Select Committee on, 710
Peers, Bankrupt, 774
Police Force, Proposed Improvements in the, 511
Police, The Report of the Metropolitan Commissioner of, 542, 611
Ponts et Chaussées in France, The, 79
Post-Office Telegraph Mismanagement, 842
Prison Charities Bill, 473
Projected Tramways, The, 899

Protection in France, 79
Protest of the Ratepayers against Pampering Vagrants, 774
Public Schools, Proposal to Drill the Boys in, 775
Public Works in India, 80
Public Works of Canterbury, New Zealand, The Present Condition and, 610
Rage for Competition, The, 710
Railway Accident Cases, Arbitration for Compensation in, 510
Railway Accidents, The late, 900
Railway and other Projects affecting the City of London, Mr. Heywood's Report on the, 116
Railway Company, The London, Chatham, and Dover, 642
Railway Management, 195
Railway System, The Attacks on the British, 116
Railway, The Mont Cenis, 642
Railways, A Japanese on, 811
Railways at the Institution of Civil Engineers, Mr. J. Harrison's Paper on, 117
Railways, The American System of Constructing Cheap, 9
Reed, Mr., and the Admiralty, 609
Registrar-General and Dr. Letheby, The, 193
Report of the Commissioners of Inland Revenue, 574
Report of the Metropolitan Commissioner of Police, The, 542, 611
Retirement of Colonel Boxer from the Manufacturing Department of Woolwich Arsenal, 7
Rivers Pollution Commission, First Report of the, 333
Royalty into the Ranks, Descent of, 774
St. Paul's Churchyard, Proposed Improvements in, 194
Sanitary Commission, Evidence taken before the Royal, 334
Sanitary Condition of the City of London, Dr. Letheby's Report on the, 115
Scavenging in the City of London, 542
School Board, The Metropolitan, 901
Scilly Islands, Paternal Despotism in the, 155
Scotland, Increase of Drunkenness in, 775
Serpentine, The, 541
Sewage and Sewage Farms, Mr. Bailey Denton on, 230
Sewage Committee, The British Association, 510
Sewage, Mr. W. Hope on the Use and Abuse of, 194
Sewage Question at Leicester, The, 9
Sewage Question at Tottenham, The, 509
Sewer Outfall, The Barking, 43
Small Farms at the Central Farmers Club, Discussion on, 900
Society for the Relief of the Sick and Wounded, The, 740
Station at the Mansion House, Resistance of the Corporation of London to the Proposed New Terminal, 9, 230, 294, 369, 439
Steam-Roller in Islington, 229, 511
Steam-Roller in Marylebone, 774
Straits of Dover, The Schemes for Bridging Over or Tunnelling Under the, 156
Subjects for Premiums Proposed by the Institution of Civil Engineers 773
Sunday Water Supply in the Metropolis, 293
Tasmania, 739
Taxation since 1815, History of, 510
Telegraph Mismanagement, Post-Office, 842
Telegraphs, The Government and the, 194, 510
Telegraphs, The Government, 901
Temple Bar, 156
Tottenham, The Sewage Question at, 509
Tramway Bill, The Board of Trade, 194
Tramways Bill, The, 404
Tramways, Extension of, 9
Tramways, Metropolitan, 155
Tramways, The Projected, 899
Training and Status of Civil Engineers, 842
Transit between England and France, The Defects in the, 403
Trial of Overend and Gurney, The, 8
Thames Conservancy Bill and the Corporation of London, The, 229
Thames Conservancy Bill, The, 473
Thwaites, Sir John, Death of, 609
Turf Gambling, 437
Vagrants, Protest of the Ratepayers against Pampering, 774
Vignoles's, Mr., Inaugural Address as President of the Institution of Civil Engineers, 79
"Village Sanitary Economy," Mr. Bailey Denton on, 474
War Notes, 641
Waste Lands, Mr. Morley, M.P., on the Cultivation of, 117
Watermen's Company, The, 542
Water Supply, Chemical Evidence given before the Royal Commission on, 293
Water Supply for the Metropolis, Constant, 899
Water Supply in the Metropolis on Sunday, 293
Water Supply of Paris, Cutting Off the, 740
Water Supply, The Metropolitan Board Debate on the, 44, 117, 155
Working Man, The, 45

Leading Articles.

Gas Bills for 1870, The, 9
Gas Legislation of 1870, 901
Heavy Oils as Fuel in Locomotives, The Use of, 45
Medical Officer of the Privy Council, Report of the, 741, 811
Metropolitan Board of Works and the Water Supply, The, 81
Paris Gas Company, The Report of the, 371
Water Analysis, 439

Circular to Gas Companies.

Aberdare Gas Company, The, 296
Accident at the Beckton Gas-Works, The late, 405
Accident, Gasholder, 13
Accounts for 1869, The Metropolitan Gas, 743, 775, 812
Accounts of the Dundee Gas Commissioners, 440
Accounts, The Manchester Gas, 775
Amalgamation of the Chartered and City of London Gas Companies, 13, 195
Amalgamation of the Chartered and Victoria Docks Gas Companies, 117
Amalgamation of the Equitable with the Chartered Gas Company, The, 869
Amalgamation of the Great Central and Chartered Gas Companies, Proposed, 157, 195, 231, 475
Amalgamation of the South London Gas Companies, State of the Negotiations of the, 336
Ammoniacal Liquor, Fatal Accident at Hull from Inhaling Vapour of, 196
Appointment of a Gas Manager, The Discussion in the Carlisle Town Council on the, 82
Appointment of Gas Examiners by the Metropolitan Board of Works, 404
Appointment of Mr. Pole as one of the Metropolitan Gas Referees, 643
Appointment of Mr. Trewby as Manager of the Beckton Gas-Works, 336
Approaching Meeting of the British Association of Gas Managers, The, 405
Assault, Conviction of a Stoker for an, 405
Awards, The Dundee Gas, 12
Award, The Bromsgrove Gas, 47
Beckton Gas-Works, Inauguration of the, 906
Beckton Gas-Works in Operation, The, 869
Beckton Gas-Works, The late Accident at the, 405
Besieged Cities, Suspension of the Supply of Gas in, 712
Board of Trade and the Gas Companies, The, 869
Bradford Corporation, Sale of the Bradford Gas-Works to the, 906
Brighton and Hove General Gas Bill, The, 511
British Association of Gas Managers, The Approaching Meeting of the, 405
British Association of Gas Managers, The Meeting of the, 475
Bromsgrove Gas Award, The, 47
Brothers, Mr. Orlando, Death of, 336
Burners, Mr. Pole's Notes on the Theory of Gas, 775, 812
Burrows *v.* The March Gas Company, The Case of, 82
Canterbury, Public Lighting in, 712
Carlisle Gas Committee, Sharp Practice of the, 47
Carlisle Town Council on the Appointment of a Gas Manager, The Discussion in the, 82
Chandler's, Professor, Report on the Method of Purification by the New York Gas Companies, 196
Charge for Public Lights at Weymouth by the Consumers Company, Proposed Increase in the, 296
Chartered and Great Central Gas Companies, Amalgamation of the, 157 195, 231
Chartered and City of London Gas Companies, Amalgamation of the, 13, 195
Chartered and Victoria Docks Gas Companies, Amalgamation of the, 117
Chartered Gas Bill, Second Reading of the, 157
Coke as Fuel, Economy of the Use of, 405
Colouring Matter Extracted from the Dead Oil of Coal Tar, The New, 82
Continental Gas Affairs, 643, 869
Conviction for Supplying Inferior and Impure Gas, Withdrawal of the Appeal of the Chartered Gas Company against the, 372
Conviction of a Gas Company for Fouling the Water in a Well, 712
Conviction of a Stoker for an Assault, 405
Conviction of the Chartered Gas Company under the City of London Gas Act, 1868
Conviction under the Metropolis Gas Act, 1860, 576
Copcutt, Mr., at Luton, 372, 404
Corporation Gas Committee to the Common Council, Report of the, 906
Cost of the Public Lamps at Maryport, Heavy, 47
Daily Make, Consumption, and Stock of Gas, Mr. D. A. Graham's Proposed Diagram for Registering the, 196
Daily Quotation of Gas and Water Shares in the London Stock Exchange List, 157
Dead Oil of Coal Tar, The New Colouring Matter Extracted from the, 82
Death of Mr. C. H. A. Martelli, 511
Death of Mr. Edwin Unwin of Sheffield, 118
Death of Mr. Orlando Brothers, 336
Death of Mr. Samuel Hughes, 813
Death of Mr. W. Esson, of Cheltenham, 576
Defensive Agent, Suggested Use of Gas as a, 680
Desulphurizing Gas Liquor, Hill's Process for, 680
Dismissal of the Bill Filed to Restrain the St. Helen's Corporation from Expending Corporation Funds in Opposing the Gas Company, 440
Dundee Gas Awards, The, 12
Dundee Gas Commissioners Accounts, The, 440
Dublin, Public Lighting in, 680
Economy of the Use of Coke as Fuel, 405
Esson, Mr. W., of Cheltenham, Death of, 576
Expending Corporation Funds in Opposing the Gas Company, Dismissal of the Bill Filed to Restrain the St. Helen's Corporation from, 440
Experiments of the Gas Referees, Alleged Unexpected Results of, 543
"Farmer's Theorem" of Illuminating Power of Gas, 157, 440
"Farmer Theorem," Mr. Stimpson on the, 870
Fatal Accident at Hull from Inhaling Vapour of Ammoniacal Liquor, 196
Fatal Accident from an Escape of Gas at Southampton, 906
Fires, On Gas, 778
Flame Temperature, Silliman and Wurtz's Paper on, 405
Fouling the Water in a Well, Conviction of a Gas Company for, 712
France, Gas Affairs in, 813
Gas Affairs at Walsall, 870, 906
Gas Affairs in France, 813
Gas and Water Facilities Act, The Board of Trade Rules in Connexion with the, 869
Gas and Water Facilities Bill, The, 232, 295, 371, 404, 440, 475, 511, 543, 575, 611
Gas Bills before the Examiners on Standing Orders, 82
Gas Bills in Parliament, Progress of, 231
Gas Companies, The Board of Trade and the, 869
Gas Examiners by the Metropolitan Board of Works, Appointment of, 404

Gas Fires, On, 778
Gasholder Accident, 13
Gas Legislation in 1870, 905
"Gas Manager's Handbook," Newbigging's, 336
Gas Referees, Alleged Unexpected Results of Experiments of the, 643
Gas Referees, Appointment of Mr. Pole as one of the Metropolitan, 643
Gas Referees on the Sulphur Question, Report of the, 611, 643
Gas Referees, The Summer Instructions of the, 295
Gas Referees, The Winter Instructions of the, 743
Glasgow Corporation Gas Committee, First Report of the, 680
Government and the Sales of Gas Act, The, 643
Graham's, Mr. D. A., Proposed Diagram for Registering the Daily Make, Consumption, and Stock of Gas, 196
Harcourt's, Mr. Vernon, and Mr. Marriott's Papers on the Estimation of Sulphur in Coal Gas, 743
Hartley's, Mr., Improvements in Photometric Apparatus, 336
Hill's Process for Desulphurizing Gas Liquor, 680
Hughes, Mr. Samuel, Death of, 813
Illuminating Power of Gas, "Farmer's Theorem" of, 157, 440
Impure Gas, Relief of the Great Central Gas Company from Penalties for Supplying, 13
Inauguration of Sixteen-Candle Gas in the Districts of the Chartered, City of London, and Great Central Gas Companies, 82
Inauguration of the Beckton Gas-Works, 906
Inferior Illuminating Power, Proceedings against the Chartered Gas Company for Supplying Gas of, 13
Information against the Sheffield Corporation for an Injunction to Restrain them from Applying the Borough Funds for Prosecuting Gas and Water Bills, 117, 157
Jet Photometer and Duration Tests, Kirkham and Sugg's Diagrams of the, 157
Justice of the Peace Summoned for Gas-Rent, A, 118
Key's Meter Life Book, 680
King's Lynn Gas Bills, The Rival, 196
King's Lynn Gas Consumers Company, The, 13, 47
King's Lynn, Gas Matters at, 82
Kirkham and Sugg's Diagrams of the Jet Photometer and Duration Tests, 157
Law affecting the Right to Remove Gas-Meters from the Premises of Consumers, The, 712
Leeds Corporation Gas Purchase Bill, The, 295
Leeds, Fatal Accident from an Escape of Gas at, 845
Leeds Gas Companies of the Offers of the Leeds Corporation to Purchase their Works, Refusal by the, 118
Leeds Gas-Works by the Corporation, Purchase of the, 612
Leeds Gas-Works to the Corporation, Transfer of the, 680
Legislation, Proposed Metropolitan Gas, 843
Light Transmitted through Plates of Polished Crown Glass, Professor Rood on the Amount of, 778
Luton, Mr. Copcutt at, 372, 404
Manchester Gas Accounts, The, 775
Manchester, Proposed New Gas-Works at, 812
Marriott's, Mr., and Mr. Vernon Harcourt's Papers on the Estimation of Sulphur in Coal Gas, 743
Martelli, Mr. C. H. A., Death of, 511
Maryport, Heavy Cost of the Public Lamps at, 47
Meeting of the British Association of Gas Managers, 475
Meter Life Book, Key's, 680
Metropolis Gas Act, 1860, Conviction under the, 576
Metropolitan Gas Accounts for 1869, The, 743, 775, 812
Metropolitan Gas Legislation, Proposed, 843
Mixing of Rich and Poor Gas, Mr. Silliman on the, 870
Movement for Diminishing Sunday Labour in Gas-Works, 232
Newbigging's "Gas Manager's Handbook," 336
Newcastle-on-Tyne Gas-Works, Alleged Nuisance at the, 13
New Gas-Works at Manchester, Proposed, 812
Newtownards, Threatened Competition in the Supply of Gas at, 232
North British Association of Gas Managers, The, 643
Notices for New Gas Bills, The Parliamentary and Board of Trade, 869
Nuisance from the Newcastle-on-Tyne Gas-Works, Alleged, 13
Paris, The Siege of, 680
Parliamentary and Board of Trade Notices for New Gas Bills, The, 869
Penalties for Supplying Impure Gas, Relief of the Great Central Gas Company from, 13
Perth Corporation and the Gas Companies, The, 612
Phœnix Gas Company, Reduction in the Price of Gas by the, 157
Photometric Apparatus, Mr. Hartley's Improvements in, 336
Photometry, 543
Photometry, Professor Rood's Paper on, 405
Pole, Mr., as One of the Metropolitan Gas Referees, Appointment of, 643
Pole's, Mr., Notes on the Theory of Gas-Burners, 775, 812
Proceedings against the Chartered Gas Company for Supplying Gas of Inferior Illuminating Power, 13
Progress of Gas Bills in Parliament, 231
Protection Provided to Gas and Water Companies by the Board of Trade Tramways Bill, The Inadequacy of the, 196
Public Lamps at Maryport, Heavy Cost of the, 47
Public Lighting in Canterbury, 712
Public Lighting in Dublin, 680
Purchase of the Leeds Gas-Works by the Corporation, 612
Purification Adopted by the New York Gas Companies, Professor Chandler's Report on the Method of, 196
Quality of Gas Supplied during the last Quarter in the City of London, The Report of the Chief Gas Examiner on the, 118
Quotation of Gas and Water Shares in the London Stock Exchange List, Daily, 157
Reduction in the Price of Gas by the Phœnix Gas Company, 157
Refusal by the Leeds Gas Companies of the Offers of the Leeds Corporation to Purchase their Works, 118
Rejection of the Sheffield Corporation Gas Bills, 295, 336
Relief of the Great Central Gas Company from Penalties for Supplying Impure Gas, 13
Removal of the Southport Gas-Works, The, 82
Report of the Chief Gas Examiner on the Quality of Gas Supplied during the last Quarter in the City of London, 118
Report of the Corporation Gas Committee to the Common Council, 295
Report of the Glasgow Corporation Gas Committee, The First, 680
Right to Remove Gas-Meters from the Premises of Consumers, The Law affecting the, 712
Rood, Professor on the Amount of Light Transmitted through Plates of Polished Crown Glass, 778
Rood's, Professor, Paper on Photometry, 405
Rotherham Local Board and the Gas Company, The, 295
Roumanian Gas Company, The, 196
Rules in Connexion with the Gas and Water Facilities Act, The Board of Trade, 869
Sale of Gas Acts, Proposed Amendment of the, 576
Sale of Gas Act, The, 372, 440, 742
Sale of Gas Act, The Government and the, 643
Sale of the Bradford Gas-Works to the Bradford Corporation, 906
Second Reading of the Chartered Gas Bill, 157
Sharp Practice of the Carlisle Gas Committee, 47
Sheerness Local Board and the Gas Company, The, 511, 543, 576, 612, 643, 680
Sheffield Corporation for an Injunction to Restrain them from Applying the Borough Funds for Prosecuting Gas and Water Bills, Information against the, 117, 157
Sheffield Corporation Gas Bills, Rejection of the 295, 336
Silliman and Wurtz's Paper on Flame Temperature, 405
Silliman, Mr., on the Mixing of Rich and Poor Gas, 870
Siege of Paris, The, 680
Société Française de l'Industrie du Gaz, The, 512
Southampton, Fatal Accident from an Escape of Gas at, 906
South London Gas Companies, State of the Negotiations for the Amalgamation of the, 336
Southport Gas Commissioners, The, 47
Southport Gas-Works, Removal of the, 82
Still and Lane's System of Making Gas from Small Coal and Tar, 712
Stimpson, Mr., on the "Farmer Theorem," 870
Sulphur in Coal Gas, Mr. Vernon Harcourt's and Mr. Marriott's Papers on the Estimation of, 743
Sulphur Question, Report of the Gas Referees on the, 611, 643
Summer Instructions of the Gas Referees, The, 295
Summoned for Gas-Rent, A Justice of the Peace, 118
Sunday Labour in Gas-Works, Movement for Diminishing, 232
Suspension of the Supply of Gas in Besieged Cities, 712
Threatened Competition in Gas Supply at Newtownards, 232
Tramways Bill, The, 232, 372, 543
Tramways Bill, The Inadequacy of the Protection Provided to Gas and Water Companies by the Board of Trade, 196
Trewby, Mr., as Manager of the Beckton Gas-Works, Appointment of, 336
Transfer of the Bradford, Aberdeen, Perth, Arbroath, and Kilmarnock Gas-Works to Corporations, Proposed, 813
Transfer of the Leeds Gas-Works to the Corporation, 680
Unstamped Meters becomes Illegal, Approach of the Period when the Use of, 82
Unwin, Mr. Edwin, of Sheffield, Death of, 118
Use of Gas as a Defensive Agent, Suggested, 680
Walsall, Gas Affairs at, 870, 906
Weymouth by the Consumers Company, Proposed Increase in the Charge for Public Lights at, 296
Winter Instructions of the Metropolitan Gas Referees, 743
Withdrawal of the Appeal of the Chartered Gas Company against the Conviction for Supplying Inferior and Impure Gas, 372

Communicated Articles.

Gas Fire, by J. O. N. Rutter, A, 779
Notes on the Theory of Gas-Burners, by W. Pole, Esq., 778, 813
Some Further Experiments on the Ratio of Increase of the Illuminating Power of Coal Gas, by Charles Hunt, F.C.S., 440
Sulphuric Acid in the Purification of Gas, On the Use of, 157

Correspondence.

Aird and Sons, John—The Purifying Apparatus at the Beckton Gas-Works, 158
Bower, Geo.—Gas and Water Facilities Bill, 441
Cockey, Henry—Gas-Valves, 512
Cotton, W. F.—Public Lighting in Cork, 743
Davies's New Exhauster—E. White, 612
Diagram for Registering the Daily Make, Consumption, and Stock of Gas, Suggested—D. A. Graham, 197
Exhauster Governors—"Inquirer," 712
Exhauster Governors—E. Jones, 743, 870
Exhauster Governors—J. Whimster, 847, 907
"Farmer Theorem" of Illuminating Power, The—Chas. Hunt, 158
Gas and Water Affairs in Oxford—G. P. Hester, 612
Gas and Water Facilities Bill—Geo. Bower, 441
Gas-Burners—Henry Greene and Son, 543
Gas-Burners, The Theory of—F. E. Stimpson, 906
Gas Fire, A—a Gas Stove—J. O. N. Rutter, 846
Gas Fires—A. H. Wood, 815
Gas Fires—W. Wright, 815
Gasholder Accident at Cambridge, The—W. Wood, 47
Gas-Valves—Henry Cockey, 512
Graham, D. A.—Suggested Diagram for Registering the Daily Make, Consumption, and Stock of Gas, 197
Greene and Son, Henry—Gas-Burners, 543
Hartley, F. W.—Improvements in Photometric Apparatus, 336
Hester, G. P.—Gas and Water Affairs in Oxford, 612
Holland, P. H.—The Sewage Question, 475
Hunt, Charles—The "Farmer Theorem" of Illuminating Power, 158
Insurance of Gas-Works against Fire—M. Ohren, 870
"Inquirer"—Exhauster Governors, 712

Jones, E.—Exhauster Governors, 743, 870
Leakage, Three-and-a-Half per Cent. Gas—"J. N.," 336
Livesey, Geo.—On the Gas Sulphur Question, 643
Measuring the Luminosity of Gas—J. Wilkinson, 544
Metropolitan Gas Accounts, The—"No Novice at Figures," 816
"No Novice at Figures"—The Metropolitan Gas Accounts, 816
Ohren, M.—Insurance of Gas-Works against Fire, 870
Photometric Apparatus, Improvements in—F. W. Hartley, 336
Public Lighting in Cork—W. F. Cotton, 743
Purifying Apparatus at the Beckton Gas-Works, The—C. and W. Walker, 118
Purifying Apparatus at the Beckton Gas-Works, The—John Aird and Sons, 158
Rutter, J. O. N.—A Gas Fire—a Gas Stove, 846
Scurfing Retorts, New Mode of—Joseph Smith, 158
Sewage Question, The—P. H. Holland, 475
Smith, Joseph—New Mode of Scurfing Retorts, 158
Sperm Candle—"J. B.," 544
Stimpson, F. E.—The Theory of Gas-Burners, 906
Sulphur Question, On the Gas—Geo. Livesey, 643
Sulphur Question, The—C. Tadman, 870
Tadman, C.—The Sulphur Question, 870
Three-and-a-Half per Cent. Gas Leakage—"J. N.," 336
Walker, C. and W.—The Purifying Apparatus at the Beckton Gas-Works, 118
Whimster, James—Exhauster Governors, 847, 907
White, E.—Davies's New Exhauster, 612
Wilkinson, J.—On Measuring the Luminosity of Gas, 544
Wood, A. H.—Gas Fires, 815
Wood, W.—The Gasholder Accident at Cambridge, 47
Wright, W.—Gas Fires, 815

Parliamentary Intelligence.

Aberdare Gas Bill—House of Commons, 272
Airedale and Shipley Gas Bills—House of Commons, 269
Blackburn Corporation Improvement Bill—House of Commons, 615
Blackburn Corporation Improvement Bill—House of Lords, 645, 681, 713
Brecon Gas Bill—House of Lords, 232
Brighton and Hove Gas Bill—House of Commons, 513
Cardiff Gas Bill—House of Lords, 259
Gas and Water Facilities Bill, 373, 613
Halifax Water and Gas Extension Bill—House of Commons, 276
King's Lynn Gas Consumers Bill and King's Lynn Gas Bill—House of Commons, 198
Leeds Gas Bill—House of Commons, 278
Notices given for Applications to Parliament for Private Bills relating to the Supply of Gas and Water, &c., 871
Notices given for Application to the Board of Trade for Provisional Orders, 873
Rainhill Gas and Water Bill—House of Lords, 234
Rotherham and Kimberworth Local Board of Health Bill—House of Commons, 298, 337
St. Helen's Gas Bill—House of Lords, 234
St. Helen's Gas Bill—House of Commons, 545
Sheffield Corporation Gas (Purchase) Bill—Sheffield Corporation Gas (New Works) Bill—House of Commons, 342
Southport Water Bill—House of Lords, 257
Water Supply on Sundays—Debate, 296
Wrexham Gas Bill—House of Commons, 261

Progress of Bills in the House of Commons, 118, 159, 198, 232, 296, 337, 373, 405, 442, 476, 512, 545, 577, 614

Progress of Bills in the House of Lords, 118, 159, 198, 232, 296, 337, 372, 405, 442, 476, 512, 545, 576, 614

Legal Intelligence.

Alliance Gas Company *v.* Patrick Dawe—Same *v.* James Dawe, 51
Attorney-General (on the Relation of George Hounsfield and Others) *v.* The Mayor, Aldermen, and Burgesses of the Borough of Sheffield and Another, 160
Attorney-General *v.* The Local Board of Health of Bishop's Stortford, 200
Attorney-General *v.* The Mayor, Aldermen, and Burgesses of the Borough of Leeds, 476
Attorney-General *v.* The Mayor, Aldermen, and Burgesses of the Borough of St. Helen's, 443
Attorney-General *v.* The West Hartlepool Improvement Commissioners, 476
Belfast Police Court—Prosecution by the Belfast Gas Company, 119
Burrows *v.* The March Gas Company, 83
Conviction of the Canterbury Gas Company for fouling Water-Wells, 715
Court of Chancery—The Attorney-General (on the Relation of George Hounsfield and Others) *v.* The Mayor, Aldermen, and Burgesses of the Borough of Sheffield and Another, 160
Court of Chancery—The Attorney-General *v.* The Local Board of Health of Bishop's Stortford, 200
Court of Chancery—The Attorney-General *v.* The Mayor, Aldermen, and Burgesses of the Borough of St. Helen's, 443
Court of Chancery—The Attorney-General *v.* The West Hartlepool Improvement Commissioners, 476
Court of Chancery—The Mayor, Aldermen, and Burgesses of the Borough of Leeds, 476
Court of Exchequer—Burrows *v.* The March Gas Company, 83
Court of Exchequer—Krehl *v.* Great Central Gas Company, 477
Court of Queen's Bench—*Ex parte* the Town Council of Darlington, 848
Dalziel *v.* The Railway Carriage and Steamboat Gas Lighting Company, 477
Dundee New Gas Arbitration, 120, 163
Ex parte the Town Council of Darlington, 848
Gaslight and Coke Company *v.* Robinson, 816
Guildhall Police Court—The Gaslight and Coke Company *v.* Robinson, 816
Kingstown Police Court—The Alliance Gas Company *v.* Patrick Dawe—Same *v.* James Dawe, 51
Krehl *v.* The Great Central Gas Company, 477
Magisterial Decision on the Proposed Regulation in Reference to the Sheffield Water-Works Company, 162
Mansion House Police Court—The Mayor and Corporation of the City of London *v.* The Gaslight and Coke Company, 47
Mayor and Corporation of the City of London *v.* The Gaslight and Coke Company, 47
Middlesex Sessions—Regina *v.* Paget, 161
Phœnix Gas Company and the Gas Deposit Question, 50
Phœnix Gas Company *v.* Shillito, 848
Prosecution by the Belfast Gas Company, 119
Regina *v.* Paget, 161
Rolls Court—Sawyer *v.* Peterborough Gas Company, 873
Sawyer *v.* Peterborough Gas Company, 873
Sheffield Petty Sessions—Sheffield Water-Works Company, 51
Sheffield Water-Works Company, 51
Sheffield Water-Works Company—Magisterial Decision on the Proposed Regulations, 162
Southampton Petty Sessions—Summons for Non-Payment of Gas-Rent, 119
Southwark Police Court—Tallentire *v.* The Surrey Consumers Gas Company, 577
Southwark Police Court—The Phœnix Gas Company and the Gas Deposit Question, 50
Southwark Police Court—The Phœnix Gas Company *v.* Shillito, 848
Tallentire *v.* The Surrey Consumers Gas Company, 577
Vice-Chancellor's Court—The Wandsworth and Putney Gaslight and Coke Company *v.* Wright and Others, 407
Wandsworth and Putney Gaslight and Coke Company *v.* Wright and Others, 407

Meetings of Gas and Water Companies, &c.

Alliance and Dublin Consumers Gas Company, 309, 752
Alum and Ammonia Company, 653
Bahia Gas Company, 375, 819
Bombay Gas Company, 516, 907
British Association of Gas Managers, 480, 518, 579, 657
Cagliari Gas Company, 240
Cambridge Gas Company, 130
Cambridge Water Company, 131
Ceará Gas Company, 817
Chartered Gas Company, 57, 129, 303, 477, 745
City of London Gas Company, 55, 125, 170
Commercial Gas Company, 308, 751
Continental Union Gas Company, 374, 816
Cork Gas Consumers Company, 721
Crystal Palace District Gas Company, 311, 744
Equitable Gas Company, 377, 821
European Gas Company, 171, 479, 553
Great Central Gas Company, 54, 201, 379, 515
Imperial Continental Gas Company, 129, 446, 876
Imperial Gas Company, 167, 650
London Gas Company, 350, 780
Malta and Mediterranean Gas Company, 477
Mauritius Gas Company, 686
Nictheroy Gas Company, 379
Oriental Gas Company, 875
Pará Gas Company, 54
Phœnix Gas Company, 307, 749
Ratcliff Gas Company, 204, 652
Rio de Janeiro Gas Company, 312
Sheppy Gas Company, 302
Singapore Gas Company, 377, 817
South Metropolitan Gas Company, 303, 745
Surrey Consumers Gas Company, 348, 783
Walton and Weybridge Company, 131
Western Gas Company, 171, 653

Miscellaneous.

Abbey Mills Pumping-Station, The, 19
Accident at Southampton, Fatal Gas, 874, 910
Accident to the Limerick Corporation Gas-Works, 17
Accounts of the Dundee Gas Commissioners, 446
Action against the South Shields Gas Company, 591
Aitken's, Professor, Report on Gas-Burners, 722
Amalgamation of the City of London Gaslight and Coke Company with the Gaslight and Coke Company, 202
Amendments in the Sale of Gas Acts, Proposed, 589
Ammonia from Gas Liquor, Mr. F. Braby on a New and Economical Method for Effecting the Extrication and Condensation of, 409
Ammonia in Coal Gas, Bicarbonate of, 351
Assessment, Cambridge Gas and Water Company's, 351
Assessment Committee, The Cambridge Gas and Water Company's Valuation and the, 131
Assessments, Mr. E. Ryde on Parochial, 382, 408
Assessments of the South Metropolitan and Surrey Consumers Gas-Works, Increase in the, 659
Australia, Progress of Gas Lighting in, 750
Barnsley, 744
Bath Gas-Works, Diminution of Sunday Labour at the, 525
Beckton Works, The Chartered Gas Company's, 19
Berlin Water-Works, 619
Bicarbonate of Ammonia in Coal Gas, 351
Braby, Mr. F., On a New and Economical Method for Effecting the Extrication and Condensation of Ammonia from Gas Liquor, 409
Bradford Gas-Works by the Corporation, Proposed Purchase of the, 16, 654

Bradford Town Council, 716, 909
British Association of Gas Managers—
Election of New Members, 480
Inaugural Address by the Vice-President, M. Ohren, Esq., 481
Gas Managers Benevolent-Fund, Motion by W. J. Warner, 484
On Setting and Working Retorts, by E. S. Cathels, 484
On Twelve Months Experience with Best and Holden's Retort Drawing and Charging Machines at Dublin, by J. Somerville, 488
On Sunday Labour, by R. Morton, 518
On the Application of Gas to Generating Steam, by E. Goddard, 519
Photometry as Applied to the Estimation of the Value of Coal Gases, by T. N. Kirkham and W. Sugg, 519
On the Practical Results of Different Modes of Purifying Gas, as Shown in the Reports of the Daily Testings of Gas Supplied to the Metropolis during the last Eleven Months, by Dr. Letheby, 557
On Artificial Alizarine, by W. T. Fewtrell, 558
Remarks on the Burners Used in Testing the Illuminating Power of Coal Gas, by C. Heisch, 558
Remarks on Photometry, by F. W. Hartley, 579
On the Economical Purification of Coal Gas, by A. Upward, 581
On Scrubbers, by G. Livesey, 581
On the Manufacture of Tar Pavement, by T. H. Methven, 584
On Gas-Meters, by W. J. Warner, 585
On Davies's Improved Rotary Exhauster, Communicated by E. White, 587
Election of Officers, &c , 588
Visit to Beckton Gas-Works, 589
British Association, The Utilization Sewage Committee of the, 174
Burners, Professor Aitken's Report on, 722
Burslem and Tunstall Gas Company, 19
Cambridge Gas and Water Company's Assessment, 351
Cambridge Gas and Water Company's Valuation and the Assessment Committee, 131
Cambridge Gas Company, Presentation to the Chairman of the, 823
Carbonic Acid on the Illuminating Power of Coal Gas, Influence of, 756
Carlisle, Municipal Abuses at, 58
Carlisle Town Council, Election of a Gas Manager, 83
Chandler, Professor, to the New York Board of Health, on the Method of Purification Employed by the Gas Companies, Official Report of, 204
Chard, Somerset, 784
Chartered Gas Company's Beckton Works, 19
Cheltenham Sewage Farm, The, 756
Chepstow, The Gas Companies at, 47
Colombo Gas and Water Works, 524
Combustion of Coals, Prevention of the Spontaneous, 822
Consulting Chemist to the Metropolitan Board, Appointment of, 579
Consumers, Important to Gas, 240
Contamination of Water by Sewage, 852
Copland, Mr. C., Presentation to, 554
Court of Common Council, 908
Crystal Palace District Gas Company, 911
Death of Dr. W. A. Miller, F.R.S., 752
Death of Mr. James Sharp, 692
Death of Sir John Thwaites, 624
Devon, Reduction of the Price of Gas at, 207
Disc, An Illuminating, 414
Disconnecting a Gas-Meter, 818
Diminution of Sunday Labour at the Bath Gas-Works, 525
Dispute at the Thorncliffe Collieries, Termination of the, 624
Dublin, The Main Drainage of, 554
Dundee Gas Awards, Meeting of the Gas Commissioners, 13
Dundee Gas Awards, Comments of the Local Press, 15
Dust and Disease, Professor Tyndall on, 136
Economic Distillation of Gas from Cannel Coals, Dr. Stevenson Macadam on the, 17
Edinburgh, The Water Supply of, 750
Explosion at Yarmouth, Serious Gas, 19
Explosion of Gas at Ipswich, 878
Explosion of Gas at Manchester, Fatal, 874
Farmer's Theorem Discussed by F. E. Stimpson, 877
Flame Temperatures in their Relations to Composition and Luminosity, Professors Silliman and Wurtz's Investigations of, 412
Frankland's, Dr., Analysis of the Metropolitan Waters, 60, 138, 207, 313, 410, 489, 554, 659, 691
Gas Referees on the Sulphur Question, First Report of the, 619
Glasgow Corporation Gas-Works, Strike among the Workmen at the, 579
Glasgow (Corporation) Gas Report, 383
Glasgow, The Sanitary Condition of, 61
Glasgow Town Council, 687
Government Gas-Works, The Woolwich Local Board and the, 750
Harcourt, A. Vernon, On a New Method for the Determination of Sulphur in Coal Gas, 754
Hard *v.* Soft Water, 624
Illuminating Disc, An, 414
Illuminating Power of Coal Gas, Influence of Carbonic Acid on the, 756
Important to Gas Consumers, 240
Intensity of Light Produced from the Combustion of Illuminating Gas and the Volume of Gas Consumed, B. Silliman on the Relation between the, 59
Ipswich, Explosion of Gas at, 878
Kettering Gas Company, 881
Kilmarnock Water-Works by the Corporation, Purchase of the, 489
Largest Station-Meter, The, 173
Letheby, Dr., on the Present Prospects of the Sewage Question in relation to the Public Health, 447
Letheby's, Dr., Report on the Gas Supplied to the City of London, 132, 313, 554, 780
Leeds and the Gas Companies, The Corporation of, 691
Leeds, Death of Five Persons by Suffocation from an Escape of Gas at, 851
Leslie, Mr. A., On the Water Supply of Paisley, 879
Lewes, 579
Light Transmitted by Plates of Polished Crown Glass at a Perpendicular Incidence, Professor Rood on the Amount of, 784
Limerick Corporation Gas-Works, Accident to the, 17
London Gaslight Company's Workmen's Club and Institute, 61, 173, 756
Macadam, Dr. Stevenson, On the Economic Distillation of Gas from Cannel Coals, 17
Main Drainage of Dublin, The, 554
Manchester, Fatal Gas Explosion at, 874
Manchester Gas Supply, 785
Marriott, W., On the Estimation of Sulphur in Coal Gas, 755
Maryport, The Rates at, 61
Metropolis Water Supply—
Metropolitan Board of Works, 89, 133
St. Marylebone Vestry, 100
Court of Common Council, 167
Metropolitan Association of Medical Officers of Health—Dr. Letheby on the Present Prospects of the Sewage Question in relation to the Public Health, 447
Merthyr Tydfil, The Sewage Litigation at, 554
Meter, Disconnecting a, 818
Metropolitan Board, Appointment of Consulting Chemist to the, 579
Metropolitan Board of Works, 13, 89, 133, 408, 719, 848, 879
Miller, Dr. W. A., Death of, 752
Municipal Abuses at Carlisle, 58
Newcastle Corporation and the Gas Company, The, 16
New Photometer, A, 414
New River Shares, Sale of, 452
New York Gas Company, Official Report of Professor Chandler to the New York Board of Health on the Method of Purification Employed by the, 204
Nictheroy (Brazil) Gas Company, 722
North British Association of Gas Managers—
Election of Office Bearers, 655
President's Address, 655
Report on Prize Papers, 657
On the Manufacture of Illuminating Gas from the Secondary Products in the Production of Paraffin Oils, by Mr. D. Scott, 689
Dr. Stevenson Macadam's Report on the same, 690
Mr. Cusiter's Report, 690
The Standard Flame, by Mr. Reid, 691
Prize Essayists, 691
On the Best Method of Carbonizing Coal, 717
The Scientific Principles Regulating the Economic Distillation of Gas from Coal, by Dr. Stevenson Macadam, 753
Oxides of Iron Employed in Gas Purifiers by means of Steam, Revivification of the, 413
Paisley, Mr. A. Leslie on the Water Supply of, 879
Parochial Assessments, Mr. E. Ryde on, 382, 408
Photometer, A New, 414
Photometer for Determining the Amount of Light Reflected by Metallic Surfaces at Different Incidences, Professor Rood on a Simple Form of, 411
Photometric Power of a Rich Gas by Dilution with a Poor Gas of Known Value—the "Method of Mixtures," B. Silliman on the Determination of the, 878
Pollution, River Conservancy and, 61
Presentation to Mr. C. Copland, 554
Presentation to the Chairman of the Cambridge Gas Company, 823
Price of Gas, Reductions in the, 554, 659
Products of Distillation of Coal Tar which Boil at a High Temperature, 413
Progress of Gas Lighting in Australia, 750
Public Lighting at Weymouth, 312
Pumping-Station at Abbey Mills, The, 19
Purchase of the Bradford Gas-Works by the Corporation, Proposed, 16, 654
Purchase of the Kilmarnock Water-Works by the Corporation, 489
Purification Employed by the New York Gas Companies, Official Report of Professor Chandler to the New York Board of Health on the Method of, 204
Rates at Maryport, The, 61
Reduction of the Price of Gas at Devon, 207
Reductions in the Price of Gas, 554, 659
Regent's Park, State of the Water in the, 554
Return by the Metropolitan Association of Medical Officers of Health of the Average Composition and Quality of the Metropolitan Waters, 61, 138, 208, 313, 414, 452, 524, 590, 660, 789, 822, 881
Revivification of the Oxides of Iron Employed in Gas Purifiers by Means of Steam, 413
River Conservancy and Pollution, 61
Rood, Professor, On a Simple Form of Photometer for Determining the Amount of Light Reflected by Metallic Surfaces at Different Incidences, 411
Rood, Professor, On the Amount of Light Transmitted by Plates of Polished Crown Glass at a Perpendicular Incidence, 784
Rugby Gas-Works, 722
Ryde, Mr. E., On Parochial Assessments, 382, 408
Sale of Gas Acts, Proposed Amendments in the, 589
Sale of New River Shares, 452
Sanitary Condition of Glasgow, 61
San Paulo Gas Company, 414, 911
Scheme for the Amalgamation of the City of London Gaslight and Coke Company with the Gaslight and Coke Company, 202
Sewage, Contamination of Water by, 852
Sewage Farm, The Cheltenham, 756
Sewage into the Thames, The Thames Conservators and the Discharge of, 756
Sewage Litigation at Merthyr Tydfil, The, 554
Sewage Question, The, 555
Sharp, Mr. James, Death of, 692
Silliman and Wurtz's, Professors, Investigations of Flame Temperatures in their Relations to Composition and Luminosity, 412

Silliman, B., On the Determination of the Photometric Power of a Rich Gas by Dilution with a Poor Gas of Known Value—the "Method of Mixtures," 878
Silliman, B., On the Relation between the Intensity of Light Produced from the Combustion of Illuminating Gas and the Volume of Gas Consumed, 59
Smith, Dr. Angus, On the Examination of Water for Organic Matter, 18
Southampton, Fatal Gas Accident at, 874, 910
South Essex Water Company, 61
South Metropolitan and Surrey Consumers Gas-Works, Increase in the Assessments of the, 659
Southport, Supply of Gas to, 381
South Shields Gas Company, Action against the, 591
Spontaneous Combustion of Coals, Prevention of the, 822
Station-Meter, The Largest, 173
Stevenson's, Dr., Report on the Gas Supplied to St. Pancras, 61, 118, 208, 313, 383, 591, 789, 852, 881
Stimpson, F. E., Farmer's Theorem Discussed by, 877
Stockton, 240
Strike among the Workmen at the Glasgow Corporation Gas-Works, 579
Suffocation of a Family by Gas Liquor on Board a Sloop at Hull, 206
Suffocation of Five Persons from an Escape of Gas at Leeds, 851
Sulphur in Coal Gas, A. Vernon Harcourt on a New Method Determination of, 754
Sulphur in Coal Gas, W. Marriott on the Estimation of, 755
Sulphur Question, First Report of the Gas Referees on the, 619
Sunday Labour at the Bath Gas-Works, Diminution of, 525
Supply of Gas to Southport, 381
Testimonial to Mr. R. J. Millar, 852
Thames, The Thames Conservators and the Discharge of Sewage into the, 756
Thorncliffe Collieries, Termination of the Dispute at the, 624
Thwaites, Sir John, Death of, 624
Tunbridge Wells Water-Works, The, 756
Tyndall, Professor, On Dust and Disease, 136
Unprofitable Gas Speculation, An, 722
Utilization Sewage Committee of the British Association, The, 174
Water by Sewage, Contamination of, 852
Water for Organic Matter, Dr. Angus Smith on the Examination of, 18
Water, Hard *v.* Soft, 624
Water in Regent's Park, State of the, 554
Water Supply of Edinburgh, The, 750
Water Supply of London, The, 61
Water Supply of Paisley, Mr. A. Leslie on the, 879
Water Supply of Paris, The, 137
Water-Works at Berlin, 619
Water-Works, The Tunbridge Wells, 756
Weymouth, Public Lighting at, 312
Whitmore's, Dr., Report on the Quality of the Gas Supplied in Marylebone, 61, 138, 207, 351, 489, 554, 659, 789, 852
Whitmore's, Dr., Report on the Quality of the Water Supplied in Marylebone, 61, 138, 207, 351, 489, 554, 659, 789, 852
Woolwich Local Board and the Government Gas-Works, The, 750
Workington Gas-Works, 349
Workmen's Club and Institute, London Gaslight Company's, 61, 173, 756
Yarmouth, Serious Gas Explosion at, 19

Share List of Metropolitan Gas Companies, 26, 65, 176, 213, 243, 316, 385, 417, 455, 492, 555, 593, 661, 693, 725, 792, 824, 884

Share List of Provincial Gas Companies, 21

Share List of Water Companies, 25

Price Current, 26, 65, 176, 213, 243, 316, 385, 417, 455, 492, 593, 661, 693, 726, 792, 825, 884

Register of New Patents.

Abel, C. D.—Wrought Metal Pipes, 62
Allbut and Robins—Pumps, 314
Anderson, F. S.—Obtaining Fuel and Light from Water, 824
Bagge, I.—Generation of Ammonia, 591
Baird, A. F.—Earth-Closets and Urinals, 314
Barcroft, E.—Cocks, Taps, or Valves, 174
Barnes, T.—Removal of Sulphur Compounds from Coal Gas, 591
Bartholomew, King, and Stephenson—Lighting and Extinguishing Gas-Lamps, 790
Bathgate, J.—Gas-Meters, 241
Beard, J.—Pumps, 591
Benson and Valentin—Production of Combustible Gases, 20
Biddell and Redgrave—Chandeliers, Lamps, &c., 62
Bonneville, H. A.—Illuminating Gas, 174
Bonneville, H. A.—Charging and Discharging Gas-Retorts, 724
Bostel, D. T.—Dry Earth-Closets, 660
Braby, F.—Sulphate of Ammonia, 174
Braby, F.—Manufacture of Caustic Ammonia, 724
Breeden, J.—Taps or Valves, 62
Breeden, J.—Taps or Stop-Cocks, 210
Brewer, E. G.—Connecting Pipes or Tubes, 453
Broadbent, R.—Gas Governors, 823
Brooman, C. E.—Cocks or Valves, 208
Brooman, C. E.—Liquid-Meters, 823
Brotherhood and Kittoe—Valves, 63
Brown, A.—Illuminating Gas, 62
Brown, G.—Gas-Meters, 174
Brown and Henderson—Water-Cocks and Valves, 242
Burns and Tarbuck—Pumping Water, &c., 791
Carpenter, W. T.—Manufacture of Gas, 241
Carter, J.—Water-Closets, 209
Carter, J.—Nightsoil Closets, 242
Casella, L. M.—Lighting Gas-Burners, &c., 823
Cenant, H. J.—Cocks, 241
Chandler, J.—Preventing Waste of Water, 315
Chandler, J.—Drawing and Preventing Waste of Water, 823
Chapman, C.—Pumps, 591
Chase, G. S.—Combustion of Gas, 314
Chatwood and Crompton—Self-Acting Escape-Valve, 883
Chatwood and Sturgeon—Forcing and Drawing Liquids, 882
Clark, A. M.—Gas-Burners, 62
Clayton, L. and L., and Smith—Taps or Valves, 490
Cocke, A.—Ventilating, 415
Cockey, H. and F. C.—Scurfing Retorts, 790
Coffin, Z. E.—Stop-Cocks or Valves, 415
Crompton and Chatwood—Self-Acting Escape-Valve, 883
Crosley and Hansen—Valves, 315
Darke, J. T.—Treating Sewage, 314
Davies, I.—Rotary Gas Exhausters, 723
Defries, D. N.—Gas-Meters, 591
Dor, N. J.—Gas-Retorts, &c., 790
Dubourg, L. A. V.—Manufacture of Gas, 415
Duckham, H. A. F.—Gas Regulators, 453
Duckworth, W.—Taps, 490
Dunderdale, C. F.—Generating Hydrogen Gas, 591
Dupre, W. H.—Light and Ventilation, 452
Evans, A.—Connecting Pipes and Tubes, 824
Eveleigh, G.—Manufacture and Purification of Gas, 63
Evered and Hurst—Raising or Forcing Water, 591
Everett, R. I.—Manufacture of Salts of Ammonia, 881
Farey, B. W.—Seating or Facings of Gas-Valves, 210
Farrow, S.—Cocks or Taps, 823
Faulkner, J.—Drawing Off Gas from Coal Mines, 791
Field, E.—Valves for Pumps, 882
Fletcher, J.—Cocks, 453
Fleury, F. G.—Raising or Forcing Liquids, 591
Foster, F.—Pressure-Gauges, 882
Franklin and Dubois—Gas-Engines, 414
Frölich, J.—Generating Gas, 414
Garrs, H. de—Gas-Pendants and Chandeliers, 415
Gedge, J. G.—Gas Apparatus or Fittings, 62
Gedge, W. E.—Cock or Tap, 20
Gedge, W. E.—Ventilating Apparatus, 314
Gedge, W. E.—Water-Meter, 414
Gibbs, R. R.—Pumps, 791
Gilbee, W. A.—Raising Water, 210
Gilchrist, A.—Slide-Valves, 724
Gisborne, F. N.—Generating Gas, 62
Greatorex, J. L.—Urinals, 415
Hairs, G. G.—Obtaining Light and Heat, 209
Hallas, D. and G.—Regulating and Purifying Gas, 314
Hanson and Crosley—Valves, 315
Harlow, R.—Valves or Cocks, 791
Harrison, S.—Ventilating, 384
Harrison, T. H.—Water-Closets, 241
Hart, J.—Separating, Distributing, and Utilizing Sewage, 490
Hawksley, G.—Pumps, 208
Hawksley, G.—Ventilators and Chimney-Pots, 208
Hawley and Hill—Controlling the Flow of Water, 881
Hemingway, A.—Slide-Valves, 452
Henderson and Brown—Water-Cocks and Valves, 242
Henry, F. G.—Meters for Measuring Water, &c, 210
Herbert and Miller—Pumps, 882
Herring, W. A.—Pumps, 210
Heyworth, R.—Water-Closets, 315, 490
Hill and Hawley—Controlling the Flow of Water, 881
Hill, E.—Slide-Valves, 791
Hills, F. C.—Furnaces of Gas-Retorts, 209
Hilton, J.—Socket and Flanged Pipes, 823
Hodge, P. R.—Manufacture of Gas, 660
Holdredge, H.—Making Gas, 453
Holroyd, S.—Recovery of Substances Used in the Purification of Gas, 210
Holt, T.—Supplying Disinfectants to Water-Closets, 591
Hunt, B.—Water-Meters, 63
Hunt, B.—Ventilating, &c., 453
Hunt, B.—Valves, 592
Hunter, W. A.—Lighting Street and other Lamps, 314
Hurst and Evered—Raising or Forcing Water, 591
Ingleton, J.—Water-Closets, 881
Inman and Smithson, sen.—Taps and Valves, 62, 490
Isange, B.—Indicating Pressure of Gas, &c., 790
Jacob, A.—Ventilating of Sewers, 210
Jarre, P. G.—Hydro-Pneumatic Pump, 20
Jenkin, F.—Producing Electric Light, 209
Jennings, J. G.—Treating Sewage, 62
Jensen, F.—Pumps, 315
Johnson and Gill—Rotary Engines and Pumps, 210
Johnson, J. H.—Heating and Ventilating, 209
Johnson, J. H.—Manufacture of Gas and Coke, 241
Johnson, J. H.—Joints of Pipes or Tubes, 592
Johnson, J. H.—Treatment of Nightsoil, &c., 592
Jones, J. H.—Lamps, 490
Keen, R. E.—Securing Plates of Glass, &c., 452
King, Bartholomew, and Stephenson—Lighting and Extinguishing Gas-Lamps, 790
King, H. J. H.—Measuring the Flow of Liquids, 790
King, H. J. H.—Measuring, Indicating, &c., the Flow of Liquids, 881
Kirk, A. C.—Retorts, 881
Kittoe and Brotherhood—Valves, 63
Knowles, J.—Rotary Engines, 883
Lake, W. R.—Uniting the Ends of Pipes or Tubes, 63
Lake, W. R.—Ventilating Apparatus, 208
Lake, W. R.—Obtaining Benzole, &c., from Coal Gas, 209
Lake, W. R.—Rendering Gas-Burners Self-Lighting, 211
Lake, W. R.—Water-Meters, 490
Lake, W. R.—Chimneys of Gas-Burners, 723

Lake, W. R.—Charging Gas-Retorts, 724
Lake, W. R.—Posts or Standards for Gas-Lamps, 790
Lane and Still—Manufacture of Gas, 490
Lane, Lea, and Storey—Controlling Discharge of Water, 415
Latham, B.—Filtering and Straining Liquids, 242
Latham, B.—Ventilators, 415
Leachman and Holroyd—Raising and Forcing Water, 823
Lea, Lane, and Storey—Controlling Discharge of Water, 415
Leoni, S.—Cooking and Lighting by Gas, 881
Lipscombe, F.—Purifying and Storing Water, 208
Lloyd, J.—Ventilating, 453
Loader, J.—Rotary Engines and Pumps, 210, 790
Lynde, J. G.—Diaphragm Indicator, 790
Mansergh, J.—Stench-Traps, 63
Marsden, C.—Flexible Joints, 314
Martin, T. S.—Self-Acting Stop-Cocks, 881
Mather, C.—Singeing Fabrics by Gas-Flames, 208
M'Lauchlan, J.—Retorts, 315
Mellor, S.—Pumps, 209
Middlemiss, G. A.—Withdrawing Water, &c., 823
Miles, D.—Lighting and Extinguishing Gas by Electricity, 882
Mills, B. J. B.—Meters for Liquids and Gases, 723
Miller and Herbert—Pumps, 882
Moore, T.—Rotary Engines, 63
Morrison, J. D.—Heating and Ventilating, 314
Morton, R.—Apparatus Used in the Manufacture of Gas, 210
Muller, J. A.—Measuring the Flow of Water, 790
Murdoch, H. H.—Forming and Joining the Ends of Tubes or Pipes, 883
Newgrin, P.—Regulating the Flow of Liquids, 882
Newton, A. V.—Rotary Engines, Pumps, and Meters, 315
Newton, A. V.—Chandeliers, 490
Newton, H. E.—Measuring Liquids, 314
Newton, H. E.—Meters for Measuring Liquids, 490
Newton, W. E.—Stop Motion and Regulator, 174
Newton, W. E.—Burners, 384
Newton, W. E.—Motors or Pumps, 414
Newton, W. E.—Centrifugal Pumps, 724
Newton, W. E.—Pumps, 790
Norton, J.—Cocks, Taps, and Valves, 415
Obach, T.—Fuel Economizers, 211
Ogden, J.—Tap and Filter, 591
Osborne and Peerless—Ball Valve or Cock, 63
Paddon, J. B.—Manufacture of Gas, 882
Page, J.—Pipe-Joints, 209
Pankhurst, T. and T., jun.—Gully-Traps, 209
Parsons, T.—Measuring Water, 660
Pearce and Ramsbottom—Pumping, &c., Water, 415
Peebles, D. B.—Gas-Meters, 315
Peerless and Osborne—Ball Valve or Cock, 63
Peet, S. J.—Valves or Cocks, 62
Pictet, R.—Pumps, 592
Pinchbeck, J.—Gas-Meters, 660
Plumb, C.—Ratchet-Brace, 452
Pocock, A. W.—Measuring Water, &c., 882
Powell, J. W.—Valve-Cock, 823
Price, A. P.—Purification of Coal Gas, 823
Prideaux, T.—Purifying Chemical Refuse, 883
Ramsay, T.—Manufacture of Gas, 660
Ramsbottom and Pearce—Pumping, &c., Water, 415
Redgrave and Biddel—Chandeliers, Lamps, &c., 62
Renton, A. H.—Jointing Pipes and Tubes, 315
Richman, H. J.—Forcing or Drawing Air, 209
Riddell, J. H.—Uniting the Ends of Pipes and Tubes, 453
Ripley and Wormald—Pipe-Wrench, 883
Robins and Allbut—Pumps, 314
Rollason, A.—Extracting Ammonia, 591
Schlösser, J.—Metallic Packing for Pumps, &c., 63
Scholefield, R.—Pumps, 823
Seyd, E.—Fluid-Meters, 415
Shedlock, J. J.—Dry Gas-Meters, 211
Shedlock, Wet Gas-Meters, 211
Smith and L. and L. Clayton—Taps or Valves, 490
Smith, W. H., the younger—Lavatories, 414
Smithson, sen., and Inman—Taps and Valves, 62, 490
Snape, J.—Pumps, 62, 452
Snook, R.—Cocks, Taps, and Valves, 209
Snuggs, E. A.—Cocks, Taps, and Valves, 823
Spence, J. B.—Purification of Illuminating Gas, 210
Stacey and Thompson—Purifying Gas, 314
Stanford, E. C. C.—Deodorizing Solid, Liquid, and Gaseous Matters, 315
Steel, J.—Substitute for Water-Closets, 63
Stewart and Wotherspoon—Cutting Metal Tubes, &c., 314
Stephenson, Bartholomew, and King—Lighting and Extinguishing Gas-Lamps, 790
Still and Lane—Manufacture of Gas, 490
Stockman, B. P.—Meters Applicable to Measuring Water, 209
Storey, Lea, and Lane—Controlling Discharge of Water, 415
Sturgeon and Chatwood—Forcing and Drawing Liquids, 882
Sugg, W. T.—Gas-Burners, 314
Tandy, G.—Carburetting Air or Gas, 414
Tarbuck and Burns—Pumping Water, &c., 791
Target, F. N.—Water-Closets, 882
Taylor, J.—Sliding Top for Wells, &c , 453
Thompson and Stacey—Purifying Gas, 314
Tongue, J. G.—Lamp-Shades, &c., 453
Townsend, J.—Extracting and Refining Oils, 210
Tylor, A.—Water-Taps, 790
Tyrrell, J. H.—Measuring or Drawing Off Liquids, 208
Valentin and Benson, Production of Combustible Gases, 20
Voice, N.—Closets and Urinals, 174
Voice, N.—Regulating the Flow of Water, &c., 208
Walker, J.—Measuring Fluids, 823
Walker, P. and A.—Gas-Meter, 881
Walker, W.—Motive-Power Engines, &c., 490
Way, J. T.—Manufacture of Manure and Purification of Gas, 723
Whimster, T.—Exhausting, Washing, and Forcing Gaseous or Aëriform Bodies, 208
Whitehead, R. W.—Coupling Pipes or Tubes, 490
Wicke, Brönner, Petersen, and Zehfuss, Treatment of Human Excrement, 790
Wigham, J. R.—Illuminating Buoys, &c., 791
Wilson, A. F.—Utilizing Waste Heat, 791
Wilson, J. C.—Revolving Engine and Pump, 883
Wilson, M.—Stink-Traps, 881
Wilson, R.—Cutting Metals, &c., 20
Wilson, T.—Screw-Wrench and Pipe-Cutter, 790
Williams, A.—Gas-Stoves, 453
Williams, J. E.—Distilling Hydrocarbon Oils, 314
Williams, R. N.—Reflectors, 489
Williams, W.—Laying and Jointing Pipes, 210
Withers, J.—Water-Meters, 415
Woodhouse, S. J.—Regulating Supply of Gas, 723
Woodward, J.—Gas and Water-Meters, 415, 882
Wormald and Ripley—Pipe-Wrench, 883
Wotherspoon and Stewart—Cutting Metal Tubes, &c., 314
Young, J.—Measuring the Pressure of Gases, &c., 209

Ammonia, Extracting—A. Rollason, 591
Ammonia, Generation of—I. Baggs, 591
Ammonia, Manufacture of Caustic—F. Braby, 724
Ammonia, Manufacture of Salts of—R. J. Everett, 881
Ammonia, Sulphate of—F. Braby, 174
Apparatus or Fittings, Gas—J. G. Gedge, 62
Ball Valve or Cock—Osborne and Peerless, 63
Benzole, &c., from Coal Gas, Obtaining—W. R. Lake, 209
Burners, Gas—A. M. Clark, 62
Burners, Gas—W. T. Sugg, 314
Burners—W. E. Newton, 384
Carburetting Air or Gas—G. Tandy,
Chandeliers—A. V. Newton, 490
Chandeliers, Lamps, &c.—Biddell and Redgrave, 62
Charging and Discharging Gas-Retorts—H. A. Bonneville, 724
Charging Gas-Retorts—W. R. Lake, 724
Chimneys of Gas-Burners—W. R. Lake, 723
Closets and Urinals—N. Voice, 174
Closets, Nightsoil—J. Carter, 242
Cock or Tap—W. E. Gedge, 20
Cocks—H. J. Cenant, 241
Cocks—J. Fletcher, 453
Cocks and Valves—Henderson and Brown, 242
Cocks or Taps—S. Farron, 823
Cocks or Valves—C. E. Brooman, 208
Cocks or Valves—Z. E. Coffin, 415
Cocks, Self-Acting Stop—T. S. Martin, 881
Cocks, Taps, and Valves—E. A. Snuggs, 823
Cocks, Taps, or Valves—E. Barcroft, 174
Cocks, Taps, or Valves—R. Snook, 209
Cocks, Taps, or Valves—J. Norton, 415
Combustible Gases, Production of—Benson and Valentin, 20
Combustion of Gas—G. S. Chase, 314
Connecting Pipes or Tubes—E. G. Brewer, 453
Controlling Discharge of Water—Storey, Lea, and Lane, 415
Controlling the Flow of Water—Hawley and Hill, 881
Coupling Pipes or Tubes—R. W. Whitehead, 490
Cooking and Lighting by Gas—S. Leoni, 881
Cutting Metals, &c.—R. Wilson, 20
Cutting Metal Tubes, &c.—Stewart and Wotherspoon, 314
Deodorizing Solid, Liquid, and Gaseous Matters—E. C. C. Stanford, 315
Disinfectants to Water-Closets, Supplying—T. Holt, 591
Drawing and Preventing Waste of Water—J. Chandler, 823
Earth-Closets and Urinals—A. F. Baird, 314
Earth-Closets—D. T. Bostel, 660
Electric Light, Producing—F. Jenkin, 209
Exhausting or Drawing Air—H. J. Richman, 209
Exhausting, Washing, and Forcing Gaseous or Aëriform Bodies—T. Whimster, 208
Exhausters, Rotary Gas—I. Davies, 723
Excrement, Treatment of Human — Wicke, Brönner, Petersen, and Zehfuss, 790
Exhausting Gas from Coal Mines, &c.—J. Faulkner, 791
Filtering and Straining Liquids—B. Latham, 242
Flexible Joints—C. Marsden, 314
Forcing and Drawing Liquids—Chatwood and Sturgeon, 882
Fuel Economizers—T. Obach, 211
Furnaces of Gas-Retorts—F. C. Hills, 209
Gas-Engines—Franklin and Dubois, 414
Generating Gas—F. N. Gisborne, 62
Generating Gas—J. Frölich, 414
Generating Hydrogen Gas—C. F. Dunderdale, 591
Governors, Gas—R. Broadbent, 823
Gully-Traps—T. and T. Pankhurst, jun., 209
Heating and Ventilating—J. H. Johnson, 209
Heating and Ventilating—J. D. Morrison, 314
Illuminating Buoys, &c.—J. R. Wigham, 791
Illuminating Gas—A. Brown, 62
Illuminating Gas—H. A. Bonneville, 174
Indicating Pressure of Steam, Gas, &c.—B. Isange, 790
Joining Pipes and Tubes—H. H. Murdoch, 883
Jointing Pipes and Tubes—A. H. Renton, 315
Joints of Pipes and Tubes—J. H. Johnson, 592
Lamps—J. H. Jones, 490
Lamp-Shades—J. G. Tongue, 453
Lanterns—R. E. Keen, 452
Lavatories—W. H. Smith the younger, 414
Laying and Jointing Pipes—W. Williams, 210
Light and Heat, Obtaining—G. G. Hairs, 209
Light and Ventilation, 452
Lighting and Extinguishing Gas by Electricity—D. Miles, 882

Lighting and Extinguishing Gas-Lamps—Stephenson, Bartholomew, and King, 790
Lighting Gas-Burners, &c—L. M. Casella, 823
Lighting Street and other Lamps—W. A. Hunter, 314
Making Gas—H. Holdrege, 453
Manufacture and Purification of Gas—G. Eveleigh, 63
Manufacture of Gas and Coke—J. H. Johnson, 241
Manufacture of Gas—W. T. Carpenter, 241
Manufacture of Gas—L. A. V. Dubourg, 415
Manufacture of Gas—Still and Lane, 490
Manufacture of Gas—P. R. Hodge, 660
Manufacture of Gas—T. Ramsay, 660
Manufacture of Gas—J. B. Paddon, 882
Manufacture of Manure and Purification of Gas—J. T. Way, 723
Measuring Fluids—J. Walker, 823
Measuring, Indicating, &c., the Flow of Liquids—H. J. H. King, 881
Measuring Liquids—H. E. Newton, 314
Measuring or Drawing Off Liquids—J. H. Tyrrell, 208
Measuring the Flow of Liquids—H. J. H. King, 790
Measuring the Flow of Water—J. A. Muller, 790
Measuring the Pressure of Gases, &c.—J. Young, 209
Measuring Water, &c.—A. W. Pocock, 882
Measuring Water—T. Parsons, 660
Meter, Gas—P. A. Walker, 881
Meters Applicable to Measuring Water—B. P. Stockman, 209
Meters, Dry Gas—J. J. Shedlock, 211
Meters, Fluid—E. Seyd, 415
Meters for Liquids and Gases—B. J. B. Mills, 723
Meters for Measuring Liquids—H. E. Newton, 490
Meters for Measuring Water, &c.—F. G. Henry, 210
Meters, Gas—G. Brown, 174
Meters, Gas—J. Bathgate, 241
Meters, Gas—D. B. Peebles, 315
Meters, Gas—D. N. Defries, 591
Meters, Gas—J. Pinchbeck, 660
Meters, Gas and Water—J. Woodward, 415
Meters, Gas and Water—J. Woodward, 882
Meters, Liquid—C. E. Brooman, 823
Meters, Water—J. Withers, 415
Meters, Water—W. R. Lake, 490
Meters, Water—J. G. Lynde, 790
Meters, Wet Gas—J. J. Shedlock, 211
Meter, Water—W. E. Gedge, 414
Motive-Power Engines, &c.—W. Walker, 490
Oils, Distilling Hydrocarbon—T. E. Williams, 314
Oils, Extracting and Refining—J. Townsend, 210
Packing for Pumps, Metallic—J. Schlösser, 63
Pendants and Chandeliers, Gas—H. de Garrs, 415
Pipe-Joints—J. Page, 209
Pipes and Tubes, Connecting—A. Evans, 824
Pipes, Forming and Joining the Ends of Tubes, &c.—H. H. Murdoch, 883
Pipes, Socket and Flanged—J. Hilton, 823
Pipes, Wrought Metal—C. D. Abel, 62
Pipe-Wrench—Ripley and Wormald, 883
Posts or Standards for Gas-Lamps—W. R. Lake, 790
Pressure-Gauges—F. Foster, 882
Purification of Gas—T. Barnes, 591
Purification of Gas—A. P. Price, 823
Purification of Illuminating Gas—J. B. Spence, 210
Purifying and Storing Water—F. Lipscombe, 208
Purifying Chemical Refuse—T. Prideaux, 883
Purifying Gas—Stacey and Thompson, 314
Pump, Hydro-Pneumatic—P. G. Jarre, 20
Pumping, &c., Water—Ramsbottom and Pearce, 415
Pumping Water—Tarbuck and Burns, 791
Pumps, Motors or—W. E. Newton, 414
Pumps—J. Snape, 62
Pumps—G. Hawksley, 208
Pumps—S. Mellor, 209
Pumps—W. A. Herring, 210
Pumps—Robins and Allbut, 314
Pumps—P. Jensen, 315
Pumps—J. Snape, 452
Pumps—C. Chapman, 591
Pumps—J. Beard, 591
Pumps—R. Pictet—592
Pumps, Centrifugal—W. E. Newton, 724
Pumps—W. E. Newton, 790
Pumps—R. R. Gibbs, 791
Pumps—Miller and Herbert, 882
Pumps—R. Scholefield, 823
Raising and Forcing Water—Leachman and Holroyd, 823
Raising or Forcing Liquids—F. G. Fleury, 591
Raising or Forcing Water—Evered and Hurst, 591
Raising Water—W. A. Gilbee, 210
Ratchet-Brace—C. Plumb, 452
Recovery of Substances Used in the Purification of Gas—S. Holroyd, 210
Reflectors—R. N. Williams, 489
Regulating and Purifying Gas—D. and G. Hallas, 314
Regulating the Flow of Liquids—P. Negrin, 882
Regulating the Flow of Water, &c.—N. Voice, 208
Regulating the Supply of Gas—S. J. Woodhouse, 723
Regulators, Gas—H. A. F. Duckham, 453
Retort-Lids—R. Morton, 210
Retorts—A. C. Kirk, 881
Retorts, Gas—N. J. Dor, 790
Retorts—J. M'Laughlan, 315
Revolving Engine and Pump—J. C. Wilson, 883
Rotary Engines—T. Moore, 63
Rotary Engines—J. Knowles, 883
Rotary Engines and Pumps—Johnson and Gill, 210
Rotary Engines and Pumps—J. Loader, 210
Rotary Engines and Pumps—J. Loader, 790
Rotary Engines, Pumps, and Meters—A. V. Newton, 315
Screw-Wrench and Pipe-Cutter—T. Wilson, 790
Scurfing Retorts—H. and F. C. Cockey, 791
Seatings or Facings of Gas-Valves—B. W. Farey, 210
Securing Panes of Glass, &c.—R. E. Keen, 452
Self-Lighting Gas-Burners—W. R. Lake, 211
Sewage, Separating, Distributing, and Utilizing—J. Hart, 490
Sewage Treating—J. G. Jennings, 62
Sewage Treating—J. T. Darke, 314
Singeing Fabrics by Gas-Flames—C. Mather, 208
Sliding Top for Wells, &c.—J. Taylor, 453
Stench-Traps—J. Mansergh, 63
Stink-Traps—M. Wilson, 881
Stop-Motion and Regulator—W. E. Newton, 174
Stoves, Gas—A. Williams, 453
Sulphate of Ammonia—F. Braby, 174
Sulphur Compounds from Gas, Removal of—T. Barnes, 591
Tap and Filter—J. Ogden, 591
Taps and Valves—Smithson, sen., and Inman, 62
Taps or Stop-Cocks—J. Breeden, 210
Taps or Valves—J. Breeden, 62
Taps or Valves—G. Smith, 208
Taps or Valves—Clayton and Smith, 490
Taps, Water—A. Tylor, 790
Taps—W. Duckworth, 490
Treatment of Nightsoil, &c.—J. H. Johnson, 592
Uniting the Ends of Pipes or Tubes—W. R. Lake, 63
Uniting the Ends of Pipes or Tubes—J. H. Riddell, 453
Urinals—J. Z. Greatorex, 415
Utilizing Waste Heat—A. F. Wilson, 791
Valve-Cock—J. W. Powell, 823
Valve, Self-Acting Escape—Chatwood and Crompton, 88
Valves for Pumps—E. Field, 882
Valves—Kittoe and Brotherhood, 63
Valves—Crosley and Hanson, 315
Valves—Smithson and Inman, 490
Valves—B. Hunt, 592
Valves or Cocks—S. J. Peet, 62
Valves or Cocks—R. Harlow, 791
Valves, Slide—A. Hemingway, 452
Valves, Slide—A. Gilchrist, 724
Valves, Slide—E. Hill, 791
Ventilating—S. Harrison, 384
Ventilating—A. Cocke, 415
Ventilating—J. Lloyd, 453
Ventilating, &c.—B. Hunt, 453
Ventilating Apparatus—W. R. Lake, 208
Ventilating Apparatus—W. E. Gedge, 314
Ventilation of Sewers—A. Jacob, 210
Ventilators and Chimney-Pots—G. Hawksley, 208
Ventilators—B. Latham, 415
Water-Closets—J. Carter, 209
Water-Closets—T. H. Harrison, 241
Water-Closets—R. Heyworth, 315, 490
Water-Closets—J. Ingleton, 881
Water-Closets—F. N. Target, 882
Water-Closets, Substitute for—J. Steel, 63
Water-Cocks and Valves—Henderson and Brown, 242
Water-Meters—B. Hunt, 63
Water, Obtaining Fuel and Light from—F. S. Anderson, 824
Water, Preventing Waste of—J. Chandler, 315
Water, Withdrawing—G. A. Middlemiss, 823

Applications for Letters Patents, 20, 63, 101, 139, 174, 211, 242, 315, 351, 384, 415, 453, 490, 525, 555, 592, 624, 660, 692, 725, 756, 791, 824, 852, 883

Grants of Provisional Protection, 20, 64, 101, 139, 174, 211, 242, 315, 352, 384, 416, 454, 491, 525, 555, 592, 624, 660, 692, 725, 756, 791, 824, 853, 883

Inventions Protected for Six Months by the Deposit of a Complete Specification, 20, 139, 352, 384, 454, 525, 756, 852, 884

Notice of Application for Leave to enter a Disclaimer and Memorandum of Alteration, 792

Notices to Proceed, 20, 64, 101, 139, 175, 212, 242, 315, 352, 384, 416, 454, 491, 525, 556, 592, 624, 660, 692, 725, 756, 791, 824, 853, 884

Patents which have become Void, 20, 64, 175, 212, 242, 315, 385. 416, 454, 491, 525, 556, 592, 624, 660, 757, 792, 852, 842, 884